TABLE OF CONTENTS
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
Final OU 2 Subsurface IM/IRA Implementation and Operation Plan
Soil Vapor Extraction Pilot Test

DOCUMENT MODIFICATION REQUEST (DMR)

Refer to 1-A01-PPG-001 for Processing Instructions.
Print or Type All Information (Except Signatures)

1. Date: 11/9/94

25. DMR. No. 93-DMR-ERM-041 (4 line 11/16/94)

2. Existing Document Number/Revision: RFP/ER-WP-OU_2.5

3. New Document Number or Document Number if it is to be changed with this Revision: N/A

4. Originator's Name/Phone/Page/Location: J. McLaughlin / 6995 / 080

5. Document Title: Final OU2 Subsurface IM/IRA IOP for SVE

6. Document Type ☐ Procedure ☒ Other IOP

7. Document Modification Type (Check only one)
☐ New ☐ Revision ☐ Intent Change ☒ Nonintent Change ☐ Editorial Correction ☐ Cancellation

8. Item	9. Page	10. Step	11. Proposed Modifications
(1)	~~2-1~~ 2BA line 11/16/94	2.3	Insert at end of subsection 2.3 "A temporary geomembrane consisting of four panels of 40 mil High Density Polyethylene (HDPE) textured on one side to provide slip protection will be placed on the ground over Trench T-3. The panels will be joined as shown in Figure 2.3-1 with approximately 0.5 feet of overlap with a synthetic double back tape supplied by the manufacturer. These seems will then be sealed with a sealant tape supplied by the manufacturer. Large penetrations(those larger than 2 inches in diameter) in the geomembrane may be made by making a cut at the edge of the panel and working it out to the penetration. Smaller penetrations will be made by making a cut at the penetration location. Penetrations will be taped. Quality control of the geomembrane will include inspection of material for flaws and tears and visual inspection of seam taping. Once the four panels are in place two continuous rows of sand bags will be placed around the outer edge of the panels and down each seem. Sand bags will also be placed in the interior of each panel."

12. Justification (Reason for Modification, EJO#, TP#, etc.)

Per recommendations in the Draft OU2 Subsurface IM/IRA Site No.1 Soil Vapor Extraction Pilot Test Report (November 1994) a geomembrane will be placed on a portion of Trench T-3 where the existing SVE wells are located to evaluate potential increases in contaminant removal rates

If modification is for a new procedure or a revision, list concurring disciplines in Block 13, and enter N/A in Blocks 14 and 15. If modification is for any type of change or a cancellation, organizations are listed in Block 13, then Concurror prints, and signs in Block 14, and dates in Block 15.

13. Organization	14. Print and Sign (if applicable)	15. Date (if applicable)
QA		11-16-94
SME	JOHN HOPKINS	11/16/94
MGR	P.S. LAURIN	11/16/94

16. Originator's Supervisor (print/sign/date): P.S. LAURIN 11/16/94

17. Assigned SME/Phone/Page/Location: JOHN HOPKINS 8636/1577/080

18. Cost Center: 3111

19. Charge Number: 989516 00

20. Requested Completion Date:

21. Effective Date:

22. Accelerated Review? Yes ☐ No ☒

23. ORC Review: NOT REQUIRED

24. Responsible Manager (print, sign, date): P.S. LAURIN 11/16/94

REVIEWED FOR CLASSIFICATION/UCNI
BY NA
DATE NA

94-AMR-ERM-0141

A temporary geomembrane consisting of four panels of 40 mil High Density Polyethylene (HDPE) textured on one side to provide slip protection will be placed on the ground over trench T-3. The panels will be joined, as shown in Figure 2.3-1, with approximately 0.5 feet of overlap with a synthetic double back tape supplied by the manufacturer. These seams will then be sealed with a sealant tape supplied by the manufacturer. Large penetrations (those larger than 2 inches in diameter) in the geomembrane will be made by making a cut at the edge of the panel and working it out to the penetration. Smaller penetrations will be made by making a cut at the penetration location. Penetrations will be taped. Quality control of this geomembrane will include inspection of material for flaws and tears and visual inspection of seam taping.

94-AMR-ERM-0141

Once the four panels are in place, two continuous rows of sand bags will be placed around the outer edge of the panels, and down each seam. Sand bags will also be placed in the interior of each panel.

RFETS/WP-OU 2.5
Rev. 2, Final

6" OVERLAP (TYP.)

12191

TK-2202
10000 GALLON GROUNDWATER STORAGE TANK

TK-2201
10000 GALLON GROUNDWATER STORAGE TANK

VAPOR PHASE GAC CANISTER (TYP)

HELICAL TANK ANCHOR 4 REQ'D (TYP)

EXISTING UNDERGROUND ELECTRICAL

N

0 5 10
SCALE IN FEET

40'-0"

(4 PANELS)
40 MIL/SINGLE SIDE-TEXTURED HDPE (TYP.)

22'-6"

FLOW STATION

BUBBLER PANEL

APM3

GROUNDWATER LINE

SPM1

SPM2

SV1

SI1

AI1

AV1

APM2

AIR INJECTION LINE

APM10

APM1

APM14

APM15

APM11

VAPOR EXTRACTION LINE

APM16

APM12

APM13

22'-6"

DIESEL GENERATOR

500 GALLON DIESEL FUEL STORAGE TANK

SANDBAG BERM WITH LINER

VAPOR EXTRACTION UNIT TRAILER

HELICAL TRAILER ANCHOR 4 REQ'D

EXISTING CONCRETE UTILITY BOX

MATCH LINE

BOREHOLE 10191

TRENCH T-3

IHSS FENCE

SITE PLAN

EXPLANATION

LEGEND

SV1	VAPOR AND GROUNDWATER EXTRACTION WELL
AV1	VAPOR EXTRACTION WELL
SI1	AIR INJECTION AND GROUNDWATER EXTRACTION WELL
AI1	AIR INJECTION WELL
▲	MONITORING WELL
□	BUBBLER PANEL / FLOW STATION
APM	ALLUVIAL PRESSURE MONITORING WELL
SPM	SANDSTONE PRESSURE MONITORING WELL
SV1	SANDSTONE EXTRACTION VENT
AV1	ALLUVIAL EXTRACTION VENT
SI1	SANDSTONE INJECTION WELL
AI1	ALLUVIAL INJECTION WELL

NOTES

1. TRENCH BOUNDARY BASED UPON VISUAL INSPECTION.

U.S. DEPARTMENT OF ENERGY
Rocky Flats Environmental Technology Site
Golden, Colorado

OPERABLE UNIT NO.2
SUBSURFACE IM/IRA SOIL VAPOR EXTRACTION SITE 1
DRAFT PILOT TEST REPORT

SVE FACILITY
TEMPORARY CAP PLACEMENT

FIGURE 2.3-1 NOVEMBER 1994

SVE-19 1=10